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# NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

03/12/2004

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, 1940 DUKE STREET ALEXANDRIA, VA 22314

**EXAMINER** 

DO, ANH HONG

ART UNIT

PAPER NUMBER

2624

DATE MAILED: 03/12/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/549,511	04/14/2000	Noriyuki Terao	0557-4953-2	9337

TITLE OF INVENTION: METHOD AND APPARATUS FOR HIGH SPEED DATA COMPRESSION AND DECOMPRESSION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	06/14/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE **Commissioner for Patents** P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

22850

7590

03/12/2004

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET **ALEXANDRIA, VA 22314** 

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

	ansimitted to the OSI 10, on the date indicated below.
(Depositor's name	
(Signature	
(Date	

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/549,511	04/14/2000	Noriyuki Terao	0557-4953-2	9337

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EXAMINER		ART UNIT		CLASS-SUBCLASS	]	
DO, ANH HONG		2624		382-240000	•	
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			names of agents O firm (hav agent) an	inting on the patent front page, f up to 3 registered patent a R, alternatively, (2) the name ring as a member a registered dd the names of up to 2 regist or agents. If no name is listerinted.	ttorneys or 1 of a single attorney or 2 ered patent	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or category	ories (will not be printed on the patent);	individual	□ corporation or other private group entit	y 🚨 governmen	
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			<u> </u>	
☐ Issue Fee	☐ A check in the amo	ount of the fee(s)	is enclosed.		
☐ Publication Fee	☐ Payment by credit	card. Form PTO-	2038 is attached.		
☐ Advance Order - # of Copies	The Director is he Deposit Account Nur	ne Director is hereby authorized by charge the required fee(s), or credit any overpayment, to sit Account Number (enclose an extra copy of this form).			
Director for Patents is requested to apply the Issue Fee	and Publication Fee (if any) or to re-apply	any previously p	aid issue fee to the application identified ab	oove.	
(Authorized Signature)	(Date)	<del> </del>		<del></del>	
NOTE; The Issue Fee and Publication Fee (if requi other than the applicant; a registered attorney or an interest as shown by the records of the United States P	ent; or the assignee or other party in I				
This collection of information is required by 37 CFF obtain or retain a benefit by the public which is to application. Confidentiality is governed by 35 U.S.C. estimated to take 12 minutes to complete, including a completed application form to the USPTO. Time we case. Any comments on the amount of time you suggestions for reducing this burden, should be sent Patent and Trademark Office, U.S. Department 22313-1450. DO NOT SEND FEES OR COMPLISEND TO: Commissioner for Patents, Alexandria, Vi	file (and by the USPTO to process) an 122 and 37 CFR 1.14. This collection is reathering, preparing, and submitting the ill vary depending upon the individual require to complete this form and/or to the Chief Information Officer, U.S. of Commerce, Alexandria, Virginia TED FORMS TO THIS ADDRESS.				
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•	OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,			DO, ANH HONG		
P.C. 1940 DUKE ST	REET		ART UNIT	PAPER NUMBER		
ALEXANDRIA	, VA 22314		2624	7		
			DATE MAILED: 03/12/2004	• (		

## Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Application No.	Applicant(s)
09/549,511	TERAO, NORIYUKI
Examiner	Art Unit
ANH H DO	2624
(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	rith the correspondence address in this application. If not included nunication will be mailed in due course. THIS subject to withdrawal from issue at the initiative
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been received in Applicati	
of this communication to fil ENT of this application.	e a reply complying with the requirements
tted. Note the attached EX s reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF or declaration is deficient.
on's Patent Drawing Revie	or in the Office action of
SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
6. ☐ Interview S Paper No. 3), 7. ☐ Examiner's	Informal Patent Application (PTO-152) Summary (PTO-413), /Mail Date S Amendment/Comment S Statement of Reasons for Allowance —  ANH HONG DO PRIMARY EXAMINER
	D9/549,511  Examiner  ANH H DO  Pars on the cover sheet were (OR REMAINS) CLOSED or other appropriate comming GHTS. This application is and MPEP 1308.  The der 35 U.S.C. § 119(a)-(d) been received.  The been received in Application to fill examiner to the submitted.  The submitted of the submitted of the submitted of the submitted.  The submitted of

Application/Control Number: 09/549,511

Art Unit: 2624

### **DETAILED ACTION**

## **Drawings**

- 1. Figure 25 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 2. Claims 1-43 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:
  - The present invention provides a new apparatus and method for subband forming, wavelet conversion, subband synthesizing, data coding and decoding, in which a parallel processing is employed to efficiently increase the speed of data compression operation (specification, line 20 of page 3 line 1 of page 4). In particular, the new apparatus and method comprise the following features, which the prior art, either taken singly or in combination, does not teach:
  - wherein each of said plurality of memory locations also stores at least one signal in addition to the stored regional signal, said at least one signal including a copy of at least one of a leading portion and trailing portion of another regional signal stored in another memory location corresponding to a divided portion of the input signal originally bordering the divided portion of the input signal

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corresponding to the particular regional signal (see independent claims 1, 15, 18, 22, 26, and 30);

- a regional divider configured to perform a regional division in which said wavelet conversion coefficients are divided into a plurality of coefficient groups in accordance with conditions such that coefficients existing in a spatial location are sorted into a corresponding group (see independent claim 34, 36, 38, 40, 42, and 43).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANH H DO whose telephone number is 703-308-6720. The examiner can normally be reached on 5/4-9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID K MOORE can be reached on 703-308-7452. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for Art Unit: 2624

Page 4

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

March 8, 2004.

ANH HONG DO PRIMARY EXAMINER